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COMPLEX MULTIPLICATION. See: elliptic functions (complex multiplication).

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CONFIGURATIONS. See: geometry (configurations).

CONFORMAL DIFFERENTIAL GEOMETRY. See: differential geometry (conformal).

CONFORMAL MAPPING. See: differential geometry; functions of complex variables.

CONIC SECTIONS. See: geometry (elementary).

CONJUGATE FUNCTIONS. See: Fourier series (conjugate functions).

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van der Kulk, W.	74	Lee, H. C.	97	Charrueau, A.	531
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Valentine, F. A.	165	Santaló, L. A.	170	Hadwiger, H.	484, 485
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COSMOLOGY. See: astronomy (cosmology).

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COVERING THEOREMS. See: sets (covering theorems).

CREMONA TRANSFORMATIONS. See: algebraic geometry (Cremona transformations).

CRYSTALLOGRAPHY. See: groups (crystallography).

CURVES. See: algebraic geometry; calculus (applications); differential geometry; functions of real variables (differentiation); geometry; topology.

CYLINDER FUNCTIONS. See: special functions (Bessel functions).

DEFINITE INTEGRALS. See: calculus (evaluation of integrals).

DEMOGRAPHY. See: actuarial mathematics (analysis of mortality); statistics (biometrics).

DENJOY INTEGRALS. See: measure and integration (Denjoy theory).

DERIVATIVES, THEORY OF. See: functions of real variables (differentiation); measure and integration (abstract theory).

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Andersen, A. F.	27	Andronov, A. A.	Truesdell, C.	517
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DIFFERENTIAL EQUATIONS. Cf. Astronomy; calculus of variations; contact transformations; differences (generalized difference equations); differential geometry; functional analysis (existence theorems); integral equations; invariants (differential); mechanics; numerical methods (differential equations); operational calculus.

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Četajev, N. G.	70	Eliašvili, A.	328	Vălcovici, V.	462
Kimball, W. S.	72	*Fraser, R. A.		Germay, R. H. J.	462
Müller-Strobel, J.	205	Duncan, W. J.		Hole, N.	463
Zanaboni, O.	273	Collar, A. R.	365	*Kamke, E.	514
Nadolachi, V. L.	273	*Jeffreys, H.		Mangeron, D. I.	515
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*Lefschetz, S.	68	Cinquini, S.	206	Meksyn, D.	382
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Belman, R.	70	Scorza Dragoni, G.	207	Fréchet, M.	462
Borg, G.	70	Calamai, G.	208	Callio, D.	462
Četajev, N. G.	70	Yelchin, M.	208	Wintner, A.	463
Bulgakov, B. V.	70	Armellini, G.	208	Peyovitch, T.	463
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Rosenblatt, A.	71	Wintner, A.	272	Name, G.	464
Popoff, K.	72	Haag, J.	273	Shtokalo, J.	464
Cinquini, S.	72	Luria, N. N.	273	*Kamke, E.	514
Stokalo, I.	72	Gradstein, I. S.	328	Kitamura, T.	515
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Kouznetsoff, P.	73	Marchente, E.	330	Miranda, C.	515
Faedo, S.	160	Wintner, A.	381	Rosenblatt, A.	516
Ritt, J. F.	205	Sansone, G.	381	Halpern, S.	583
Tóth, F.	205	Grünwald, E.	382	Wintner, A.	615

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*Lefschetz, S.	68	Müller-Strobel, J.	205	Horvay, G.	382
Haag, J.	69	Zwirner, G.	206	Azevedo do Amaral, I. M.	382
Borg, G.	70	Cesari, L.	208	Furry, W. H.	463
Bulgakov, B. V.	70	Makai, E.	208	Coronato, S.	463
Wintner, A.	71	Levitau, B.	278	Shtokalo, J.	464
Blanc, C.	72	Powmer, A.	328	Powmer, A.	469
Kimball, W. S.	72	Gradstein, I. A.	328	*Kamke, E.	514
Popoff, K.	72	Aquaro, G.	328	Piejel, A.	515
Stokalo, I.	72	Mikeldadze, S. E.	329	Tricomi, F.	515
Lusin, N.		Shtokalo, J.	329	Mangeron, D. I.	515
Kouznetsoff, P.	73	Sokolov, A. A.	330	Blanc, C.	515
Sansone, G.	73	Wintner, A.	381	Wintner, A.	615
Chieffini, A.	73	Sansone, G.	381		
Graff, A. A.	74				

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*Lefschetz, S.	68	*Minorsky, N.	207	Friedrichs, K. O.	329
Cartwright, M. L.	68	Teodorichik, K.	207	John, F.	329
Littlewood, J. E.	68	Bulgakov, B. V.	207	Haag, J.	329
Kazakevich, V. V.	69	Taeger, W.	207	Leonov, M. J.	329
Volk, I. M.	69	Picone, M.	268	Volk, I. M.	330
Teodorichik, K.	69	Sansone, G.	268	Proskuryakov, A. P.	330
Mangeron, D. I.	69	Friedrichs, K. O.	272	Weiss, H. K.	382
Rocard, Y.	69	Wasow, W. R.	272	Manacorda, T.	464
Abel, J.	69	Gvosdovder, S.	298	*Minorsky, N.	583
Rosenblatt, A.	69	Lopukhin, V.	329	de Bruijn, N. G.	583
Haag, J.	69	Eckweiler, H. J.	329	Almeida Meneses, P. R.	583
Belman, R.	70	Flanders, D. A.	329	Crandall, S. H.	583
Bulgakov, B. V.	70	Stoker, J. J.	329		
Flisov, G. A.	70				

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Horvay, G.	382	Chieffini, A.	462	Cambi, E.	463
Meksyn, D.	382	Hole, N.	463	*Kamke, E.	514
Di Bello, M.	462	Furry, W. H.	463	Carafa, M.	516

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Germay, R. H. J.	74	Pfeiffer, G. V.	75	Maxia, A.	350
van der Kulk, W.	74	Wadzewski, T.	209	Lalan, V.	404
Schouten, J. A.		Martinelli, E.	331	Germay, R. H. J.	516, 583, 584
van der Kulk, W.	74, 75	Pfeiffer, G.	331		

Partial equations, first order, systems, etc.

De Donder, T.	76	Sokolov, A. A.	330	Rosenblatt, A.	464
Meltzer, L. A.	76	Pfeiffer, G.	331	Cinquini-Cibrario, M.	465
Savarensky, E. F.	76	Buzano, P.	331	Finzi, A.	466
Drach, J.	76	Rosenblatt, A.	332	Comét, S.	516
Gosse, G.	76	Fichera, G.	382	Germay, R. H. J.	584
Chabate, B.	77	Pfeiffer, G.	383	Vessiot, E.	584
Cimmino, G.	271	Mychka, A.	383	Finzi, A.	584
Balada, E.	274	Taortza, A.	464		

Partial equations: second order: general theory.

De Donder, T.	76	Grünberg, G.	209	Picone, M.	464
Vicente Gonçalves, J.	76	Bergman, S.	274	Wassermann, G. D.	585
Faedo, S.	79	*Jeffreys, H.			
Coutrez, R.	209	Jeffreys, B. S.	447		

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Partial equations: second order: elliptic. Cf. Elasticity; electricity; harmonic functions; hydrodynamics; potential theory.

Sherman, D.	66	Rellich, F.	204	Amerio, L.	383, 384
Chernoff, H.	76	Adelson-Welsky, G.		Tolotti, C.	384
Mukherjee, S. R.	77	Kronrode, A.	204	Cimmino, G.	465
Wassermann, G.	77	Cinquini-Cibrario, M.		Weiss, P.	513
Frankl, F.	77	M.	209, 274	Wintner, A.	516
Chabate, B.	77	Zwirner, G.	332	Duffin, R. J.	584
Mitchell, J.	81	*Southwell, R. V.	355	Wassermann, G. D.	585
Lavrentiev, M.	202	Vekua, I.	380		

Partial equations: second order: parabolic. Cf. Diffusion; elasticity; heat conduction; hydrodynamics.

Brook, S.	81	Cinquini-Cibrario, M.		Ambaumian, G. A.	516
Kamer, E.		M.	209, 274	Rubinstein, L. I.	516
De Cicco, J.	95	Amerio, L.	274	Vernotte, P.	585
Krzyżanski, M.	209	Karimov, D. H.	465		

Partial equations: second order: hyperbolic. Cf. Elasticity (wave propagation); electricity (waves); geophysics; hydrodynamics (wave propagation); potential theory.

Chandrasekhar, S.	78	Cinquini-Cibrario, M.	81	Zwirner, G.	332
Soboleff, S. L.	78	Mambriani, A.	83	Vekua, I.	384
Petrovsky, I.	79	Zwirner, G.	210	Fremberg, N. E.	384
Faedo, S.	79	Petrashen, G.	210	Mo, Ou Sing.	447
Michal, A. D.	79	Conforto, F.	275	Cinquini-Cibrario, M.	465
Owen, C. W.	80	Paolini, B.	332	M.	465
Drăganu, M.	80	Platone, G.	332	Blasius, D.	580, 581
Michlis, S.	80	Petrashen, G.	332	Masket, A. V.	585
Masket, A. V.	80				

Partial equations of higher order. Cf. Elasticity; hydrodynamics.

Kondrachoff, V. I.	77	Fantappiè, L.	210	Picone, M.	464
Mitchell, J.	81	Aquaro, G.	275	Owens, O. G.	466
Mambriani, A.	82	Mangerson, D.	275	Mangerson, D. I.	466
Dolidze, D.	104	Zwirner, G.	332, 333	Diaz, J. B.	466
Sobrero, L.	205	Dolidze, D.	381	Finzi, A.	466, 584
Coutres, R.	209	Bremekamp, H.	384	Fantappiè, L.	589

Infinitesimal transformations. Cf. Contact transformations.

Tsartzes, A.	464				
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Applications of integral transforms: ordinary and partial. Cf. Operational calculus.

Blanc, C.	71	Sneddon, I. N.	265	Grünwald, E.	382
Müller-Strobel, J.	205	Belardinelli, G.	273	Widder, D. V.	458
Constantinescu, G. G.	205	Mangerson, D.	275	Picone, M.	464
		Wintner, A.	381		

Boundary value and expansion problems, characteristic values: ordinary and partial. Cf. Harmonic functions (Dirichlet problem).

Kantorovich, L. V.	30	Cimmino, G.	270	Amerio, L.	383, 384
Caligo, D.	72	Scorza Dragoni, G.	273	Titchmarsh, E. C.	458
Bobonis, A.	72	Zwirner, G.	273	Sarginson, K.	456
Graff, A. A.	74	Bristow, L.	273	Coronato, S.	463
Vicente Gonçalves, J.	76	Merli, L.	273	Borg, G.	464
Chandrasekhar, S.	78	Baidia, E.	274	Powmer, A.	469
Wielandt, H.	157	Faedo, S.	274	Minakshisundaram, S.	512
Lewitan, B. M.	157	Cinquini-Cibrario, M.	274	Weiss, P.	513
Faedo, S.	160	M.	274	*Collatz, L.	514
Lettenmeyer, F.	205	Conforto, F.	275	Pleijel, A.	515
Zwirner, G.	206	Lewitan, B.	278	Miranda, C.	515
Cinquini, S.	206	Powmer, A.	328	Tricomi, F.	515
Trevisan, G.	206	Aquaro, G.	330	Duffin, R. J.	584
Scorza Dragoni, G.	207	Cinquini, S.	330	Wassermann, G. D.	585
Makai, E.	208	Marchente, E.	381	Fantappiè, L.	589
Grünberg, G.	209	Graffi, D.	381	Van Hove, L.	590
Zimmerberg, H. J.	313	Laura, E.	381		

Differential operators and differential equations of infinite order. Cf. Functional analysis (operators).

Teghem, J.	511				
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DIFFERENTIAL FORMS. See: differential equations (formal theory); differential geometry; invariants (differential).

DIFFERENTIAL GEOMETRY.

Set-theoretical methods (natural and finite differential geometry). Cf. Functions of real variables (differentiation); geometry (abstract metrics).

Bouligand, G.	90	Artzy, R.	343	Hjelmslev, J.	484
Scherk, P.	220	Bouligand, G.	344	Savage, L. J.	484
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Classical differential geometry in general. Cf. Contact transformations.

*Jensen, B.	89	Winants, M.	228	Pa, C.	487
Buscheguenne, S. S.	90	Lalan, V.	228	Strubecker, K.	487
Krein, M.	91	Bouligand, G.	344	Câmpan, F.	529
Tietze, H.	91	Aranjo, R.	344	Rollero, A.	529
Santaló, L. A.	91	Mineo, M.	344	Barba, G.	529
De Cicco, J.	95	Silva, G.	344, 345	Silva, G.	529
Morelli, C.	225	Boaga, G.	345	Facciotti, G.	530
Mineo, C.	225	Rollero, A.	345	Gheorghiev, G.	530
Giambusso, V.	225	Facciotti, G.	345	Lalan, V.	530
Bottema, O.	226	Drach, J.	345	Bompiani, E.	530
Scherer, W.	226	Myller, A.	345	Fong, Shu-Chu.	530
Popa, I.	226	Bogdan, C. P.	345	Bouligand, G.	531
Gheorghiev, G.	226	Abraham, N.	346	Hsiung, Chuan-Chih.	600
Golab, S.	227	Schneidt, M.	347	Maeda, K.	601
Maxia, A.	227	Lalan, V.	404	Argiriade, E.	601
Marletta, G.	227	Sbrana, F.	486	Pantazi, A.	601
Bompiani, E.	227	Rollero, A.	486	Roset, O.	602
Creangă, I.	228	Gheorghiu, G. T.	486	Wagner, V.	602
Simonart, F.	228				

Kinematical methods. Cf. Mechanics (kinematics).

*Jensen, B.	89	Santaló, L. A.	91	Strubecker, K.	487
Blaschke, G.	91	Vincensini, P.	229	Wojnarowski, R.	532

Special mapping problems. Cf. Geodesy (elementary).

Mosharrafa, A. M.	85	Choquet, G.	93	Mandan, R.	338
Buttgenbach, H.	85	Strubecker, K.	96	Kronsehn, J.	338
Kamer, E.	89	Cesari, L.	142	Hubeny, K.	343
De Cicco, J.	89	Di Pina, S.	224	Allard, P.	343
Löbel, F.	89	Caldarera, G.	224	Boaga, G.	345
Hauer, F.	89	Hunger, F.	224	Kamer, E.	345
Hristow, W. K.	90	Mineo, C.	225	De Cicco, J.	350
Mineo, C.	90	Giambusso, V.	225	De Cicco, J.	403, 486
Giolotta, B.	90	Ciucci, A.	226	Samuel, P.	486
Boaga, G.	90	Cesari, L.	258	De Cicco, J.	600

Special curves and surfaces. Cf. Calculus (applications).

Abraham, N.	92	Sen Gupta, B. K.	344	Sen Gupta, B. K.	526
Pugachev, V. S.	226	Pernat, R.	344	Câmpan, F.	529
Dolaptchiew, B.	227	Myller, A.	345		

Minimal surfaces. Cf. Calculus of variations (minimal surfaces).

Lalan, V.	228	Lévy, P.	338	Samuel, P.	486
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Families and nets of curves, webs.

Stalek, P.	92	Zito, C.	229	Grove, V. G.	487
Marcus, F.	92	Vincensini, P.	229	Vincensini, P.	487
Mihăilescu, T.	92	Artzy, R.	343	Fincoff, S.	487
Kamer, E.	95	Bouligand, G.	344	Roset, O.	530
De Cicco, J.	95	Mineo, M.	344	Roset, O.-Bonnet, F.	530
Mineo, C.	225	Efimov, N.	346	Hsiung, Chuan-Chih.	530
Winants, M.	228	Norden, A.	346	Kosmina, T.	531
Lalan, V.	228	Amato, G.	346	Norden, A.	604

Differential line geometry. Cf. Geometry (lines).

Lacombe, D.	49	Mihăilescu, T.	92	Vincensini, P.	347
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Gottschalk, W. H.	34	Beurling, A.	159	Tsuji, M.	280
Gottschalk, W. H.		Gottschalk, W. H.	159	Niemyski, V.	280
Hedlund, G. A.	34	Khinchine, A.	187	Fan, K.	568
Barbachine, E.	34	Riesz, F.	280	Hartman, P.	589
Denjoy, A.	34	Dunford, N.		Barbachine, E.	589
Halmos, P. R.	34	Miller, D. S.	280	Mayer, A. G.	590
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EXPANSIONS OF FUNCTIONS. See: approximation.

EXTREMAL PROBLEMS. See: calculus of variations; Fourier series (extremal problems); functions of complex variables (extremal problems); inequalities; isoperimetric problems; polynomials (extremal problems).

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FERMAT. See: number theory.

FIELDS. See: algebra: abstract; number theory.

FIGURES OF EQUILIBRIUM. See: astronomy (figures of equilibrium).

FINANCE, MATHEMATICS OF. See: actuarial mathematics (mathematics of finance).

FINITE GEOMETRY. See: differential geometry (set-theoretical methods); elementary geometry (geometry in fields).

FINSLER SPACES. See: calculus of variations (generalized geometrical theory); differential geometry (Finsler spaces); geometry (Minkowski geometry; abstract metrics).

FIXED POINTS. See: integral transforms (self-reciprocal functions); functional analysis (existence theorems); topology.

FORMS, THEORY OF. See: algebra: linear; number theory (theory of forms).

FOUNDATIONS. See: geometry (foundations); intuitionism; logic; philosophy; probability (foundations); sets (axiomatics).

FOUR-COLOR PROBLEM. See: topology (graphs).

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Kober, H.	152	Blanuka, D.	457	Herrera, F. E.	511
Levin, B. J.	152	Boas, R. P., Jr.	457	Edmonds, S. M.	577
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		Schwartz, L.	264	Martin, W. T.	523

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van der Corput, J. G.		Il'eff, L.	262	Zamansky, M.	457
Vinner, C.	148	Turetzky, A.	376	Alaci, V.	576
Geronimus, J.	262				

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Bang, T.	199	Turetzky, A.	376
Geronimus, J.	262	Civin, P.	577

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Losinski, S.	148, 149	Loo, Ching-Tsün.	262	Sargent, W. L. C.	576
Nikolsky, S.	149	Geronimus, J.	262	Natanson, I. P.	577
Chen, Kien-Kwong.	150	Nachbin, L.	263	Sansone, G.	577
Sahal, B.	150	Zamansky, M.	457	Civin, P.	577
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Zahoraki, Z.	148	Obreschkoff, N.	262	Arbault, J.	457
Losinski, S.	149	Foa, A.	376	Herrera, F. E.	511
Sansone, G.	149	Hardy, G. H.		Galbraith, A. S.	
Cheng, Min-Teh.	149	Rogosinski, W. W.	376	Green, J. W.	511
Wang, Fu Traing.	149	Amerio, L.	376	Menchoff, D.	577
Sidon, S.	150	Ferrand, J.		Mira, M. L.	577
Sinhal, S. D.	261	Fortet, R.	391	Natanson, I. P.	577
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Banerji, D. P.	150	Amerio, L.	376	Sargison, K.	458
Olsson, H.	150	Ferrand, J.		Koroua, J.	511
Sidon, S.	150	Fortet, R.	391	Minakshisundaram, S.	512
Fejes, L.	263	Titchmarsh, E. C.	458		
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FRACTIONAL DIFFERENTIATION AND INTEGRATION. See: differentiation of fractional order.

FREQUENCY FUNCTIONS. See: probability; statistics.

FUNCTION FIELDS. See: algebra: abstract (fields); algebraic functions; number theory (analytic theory).

FUNCTIONAL ANALYSIS. Cf. Continuous geometry; differential equations (differential operators); ergodic theory; groups (continuous groups); measure (abstract theory); symbolic dynamics; topology.

General abstract spaces. Cf. Differential geometry (Finsler spaces); functions of real variables (integration in abstract spaces); geometry (abstract metrics); sets; topology (topological spaces).

Kantorovich, L. V.	30	Arens, R.	165	Mackey, G. W.	519
Hyers, D. H.	33	Hewitt, E.	165	Katětov, M.	519
Monna, A. F.	48	Kalich, G. K.	166	Romanoff, N. P.	520
Wielandt, H.	157	Gomes, A. P.	275, 276	Kaplansky, I.	587
Lipsonoff, A.	157	Fan, K.	276	Gomes, R. L.	588

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Schatten, R.		Sigalov, A. G.	157	Munroe, M. E.	387
von Neumann, J.	31	Grunbaum, M. M.	158	Nikodym, O.	450
Griabum, M. M.	31	Valentine, F. A.	165	Katětov, M.	468
Rios, S.	33	Delange, H.-Pau, C.	279	Macphail, M. S.	520
Nikolsky, S.	149	Eberlein, W. F.	279	Hyers, D. H.	
Tikov, N. S.	157	Kondó, M.	279	Ulam, S. M.	588
Bourgin, D. G.	157	Izumi, S.	279	Taylor, A. E.	588

Hilbert spaces.

Zaanen, A. C.	28	Lewitan, B. M.	157	Neumark, M. A.	386
Il'guzer Al'mech, J. M.	31	Rothe, E. H.	158	Zitlanadze, E. S.	386
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von Neumann, J.	31	Homburger, H. L.	276	Hohelsel, G.	469
Kakutani, S.		Krein, M.	277	Castoldi, L.	469
Mackey, G. W.	31	Julia, G.	277	Bary, N.	513
Julia, G.	32	Lewitan, B.	277	Dixmier, J.	518, 519
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Krein, M.	32	Powmer, A.	278	Segal, I. E.	520
Frois, E.	32	Fichera, G.	278	Livshitz, M. S.	588
Siddiqui, R.	32	Lévy, P.	278	Nikodym, O. M.	588
Rieser, F.		Dunford, N.		de Sz. Nagy, B.	589
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Hilding, S. H.	151	Nikodym, O. M.	386	Wintner, A.	589

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Il'guzer Al'mech, J. M.	31	Zaanen, A. C.	158	Amerio, L.	278
Fullerton, R. E.	32	Martchenko, V.	158	Kalich, G. K.	388
Kondrachov, W.	32	Schwartz, L.	158	Cameron, R. H.	
Siddiqui, R.	32	Fantappiè, L.	158	Martin, W. T.	392, 523
Monna, A. F.	32, 33	Bourling, A.	159	Bohr, H.	459
Fyner, E.	151	Lewitan, B.		Hyers, D. H.	
Lipsonoff, A.	157	Powmer, A.	278	Ulam, S. M.	588
Catunda, O.	157	Sebastião e Silva, J.	278	Fantappiè, L.	589

Partially ordered spaces. Cf. Partially ordered sets.

Vulikh, B.	30	Bochner, S.-Fan, K.	387	Pinsker, A. G.	468
Pinsker, A. G.	31	Nakano, H.	387	Vulikh, B.	468
Fan, K.	276				

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Rickart, C. E.	159	Kaplansky, I.	434	Raikov, D. A.	469
Arens, R.	165, 279	Segal, I. E.	438	Segal, I. E.	520
Mann, P. R.	321	Powmer, A.	469		

Equations in infinitely many variables. Cf. Differential equations (differential operators).

Hilding, S. H.	375	Smith, R. C. T.	469
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Existence theorems for differential, integral and functional equations; spectral theory.

Kantorovich, L. V.	30	*v. Sz. Nagy, B.	276	Zitlanadze, E. S.	386
*Il'guzer Al'mech, J. M.	31	Krein, M.	277	Hohelsel, G.	469
Persson, K.	148	Lewitan, B.		Powmer, A.	469
Wielandt, H.	157	Powmer, A.	278	Ghezso, S.	519
Catunda, O.	157	Fichera, G.	278	Romanoff, N. P.	520
Bourling, A.	159	Scorza Dragoni, G.	278	de Sz. Nagy, B.	589

FUNCTIONAL DETERMINANTS. See: calculus.

FUNCTIONAL EQUATIONS: SPECIAL TYPES. Cf. Differences (difference equations); generalized difference equations; functional analysis (existence theorems); operational calculus; special functions (functions defined by functional equations).

Walker, A. G.	19	Mukherjee, S. R.	28	Bradley, F. W.	385
Montroll, E. W.	25	Robinson, L. B.	28	Bădescu, R.	385
Anderson, A. F.	27	Ghiricopolu, N.	84	Nardini, R.	386
Alexandrescu, A.		Batty, J. S.		Mo, Ou Sing.	447
Orlicz, W.	27	Walker, A. G.	199	Andronov, A. A.	
San Juan, R.	27	Ghermanescu, M.	211	Maler, A. G.	517
Anghelescu, T.	28	Popovici, C.	211	Truesdell, C.	517
Krueger, G.	28	Beke, E.	211	Myler, A.	517
Masera, J. L.		Sibirani, F.	290	Kitamura, T.	517
Petracca, A.	28	Wright, E. M.	385		

FUNCTIONAL SPACES. See: differential geometry (Finsler spaces); functional analysis; measure and integration; topology (topological spaces; applications).

FUNCTIONS OF COMPLEX VARIABLES. Cf. Algebraic functions; Dirichlet series; elliptic functions; Fourier integrals; integral transforms (Laplace integrals; Mellin transforms; self-reciprocal functions); harmonic functions; number theory (analytic tools).

*Sanone, G.	143	Kamer, E.		*Knopp, K.	452
*Tricomi, F.	200	De Cicco, J.	322, 339	Reade, M. O.	453
Giorgi, G.	201	*Jeffreys, H.		Pompeu, D.	453
		Jeffreys, B. S.	447		

Power series. Cf. Series (power series).

Netanyahu, E.	144	Ferenczi, Z.	202
Walsh, J. L.	144	Cowling, V. F.	373

Zeros. Cf. Polynomials (zeros).

Walsh, J. L.	144	Stjerner, C.	308	Serghiesco, S.	453
Biernacki, M.	154	Delange, H.	322	Sherman, S.	453
Walsh, J. L.	201	Meyman, N.	323	Germay, R.-H.-J.	
Dvoretzky, A.	201	Littlewood, J. E.			507, 573
Sklyarev, V.	202	Offord, A. C.	372		
Delange, H.	266				

Analytic continuation, singularities, overconvergence.

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Cinquini, S.	20	Sebastião e Silva, J.	278	Piaot, C.	454
Boas, R. P., Jr.	20	Colucci, A.	322	Rios, S.	455
Dvoretzky, A.	20	Mandelbrojt, S.	322	Bejar Alamo, J.	455
Golusin, G.	22	Rios, S.	322	Iglesias Garrido, T.	455
Rios, S.	144	Barba, G.	322	C'lug'reanu, G.	455
Netanyahu, E.	144	Shah, S. M.	322	Mandelbrojt, S.	
Fried, H.	145	Rogosinski, W. W.	324	MacLane, G. R.	508
de Groot, J.	201	Broggi, U.	370	Ferrand, J.	508
Walsh, J. L.	201	Boas, R. P., Jr.	372	Teghem, J.	511
Dvoretzky, A.	201				

Cauchy integral and related topics. Cf. Calculus (contour integrals).

Cinquini, S.	20	Kveselava, D.	326, 370	Serghiesco, S.	453
Masera, J. L.	142	Ridder, J.	373, 374	Vekua, N.	453
Widder, D. V.	144	Mayer, O.	453	Comét, S.	456
Ciotti, U.	145	Reade, M. O.	453	Weiss, P.	513
Sebastião e Silva, J.	378				

Schwarz lemma, maximum principle, and related topics.

Mandelbrojt, S.	20	Rogosinski, W. W.	324	Mandelbrojt, S.	
Mandelbrojt, S.		Heins, M.	371	MacLane, G. R.	508
MacLane, G.	20	Buck, R. C.	371	Ferrand, J.	508
Boas, R. P., Jr.	144	Fuchs, W. H. J.	371	Heins, M.	575
Buck, R. C.	323	Boas, R. P., Jr.	372		

Conformal mapping: general theory.

Fraser, H.	19	Bernant, A.	202	Fuchs, B.	371
Morse, M.-Heins, M.	21	Teichmüller, O.	202	Papaghyros, A. G.	453
Heins, M.	21	Lavrentiev, M.	202	Kufarev, P. P.	453
Ferrand, J.	22	Colucci, A.	226	Gabriel, R. M.	461
Capelli, P.-Cotlar, M.	22	Rogosinski, W. W.	324	Tsuji, M.	508
Broman, A.	22	Grunsky, H.	324	Carathéodory, C.	508
Golusin, G.	22	Wirtinger, W.	324	Nevanlinna, R.	509
Selberg, H. L.	23, 24	Schiffer, M.	325	Laasonen, P.	513
Choquet, G.	93	Golusin, G.	325	Schaeffer, A. C.	
Ferrand, J.		Lavrentiev, M.	326	Spencer, D. C.	575
Dufresnoy, J.	145	Teichmüller, O.	327	Kufarev, P.	575
Ciotti, U.	145	Schiffer, M.	371		

Conformal mapping: special problems and applications. Cf. Calculus of variations (minimal surfaces); differential geometry.

Golusin, G.	22	*Southwell, R. V.	355	Morgan, E. L.	573
von Koppenfels, W.	324	*Jeffreys, H.		Lighthill, M. J.	610
		Jeffreys, B. S.	447		

Riemann surfaces, uniformization. Cf. Topology (covering surfaces).

Selberg, H. L.	23	Teichmüller, O.	327	Nevanlinna, R.	509
Laasonen, P.	24	Tsuji, M.	373	Myrberg, P. J.	509
Dedecker, P.	145	Schilling, O. F. G.	454	Yang, T.	576
Teichmüller, O.	202	Tsuji, M.	508	Myrberg, P. J.	576
Volkovskii, L. I.	326				

FUNCTIONS OF COMPLEX VARIABLES. (Continued)

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Bernstein, S.	20	Murai, M.	373	Onofri, L.	373
Morse, M.-Heins, M.	21	Makar, R. H.	323	Tsuji, M.	373
Golusin, G. M.	23	Bernstein, S.	323	Pisot, C.	454
Shah, S. M.	23	Acheyser, N. I.	323	Whittaker, J. M.	454
Pisot, C.	23	Buck, R. C.	323	Kober, H.	455
Ghermanescu, J.	24	Boas, R. P., Jr.	323	Bejar Alamo, J.	455
Dufresnoy, J.	25	Meyman, N.	323	Iglesias Garrido, T.	455
Hardy, G. H.	65	Rajagopal, C. T.	324	Morse, M.-Heins, M.	507
Ibragimov, I.	144	Germay, R. H. J.	324	Germay, R.-H.-J.	508
Boas, R. P., Jr.	144	Heins, M.	371	Valiron, G.	508
Bernstein, S.	144	Buck, R. C.	371	Tsuji, M.	508
Olsson, H.	150	Fuchs, W. H. J.	371	Bernstein, S.	509
Birkhoff, G. D.	201	Boas, R. P., Jr.	372	Gandpathy Iyer, V.	509
Skrylyeff, V.	202	Akhieser, N.	372	Lozinski, S.	510
Pfuger, A.	203	Littlewood, J. E.	372	Shah, S. M.	576
Delange, H.	266	Offord, A. C.	372	Valiron, G.	576
Schoenberg, I. J.	319	Bernstein, S.	373	Bernstein, S.	576
Shah, S. M.	322	Cowling, V. F.	373	Gerst, I.	576
		Nehari, Z.	373		

Picard theorem, distribution of values.

Morse, M.-Heins, M.	21	Ghermanescu, M.	24	Teichmüller, O.	327
Selberg, H. L.	23	Pfuger, A.	203	Tsuji, M.	373, 508
Kunugui, K.	24	Tsuji, M.	203	Selberg, H. L.	576
Turner, Y.	24	Pu, Pao-Ming.	324		

Univalent functions, bounded functions and related topics.

Remak, R.	22	Wolff, J.	145	Krzywoblocki, M. Z.	508
Dvoretzky, A.	22	Fried, H.	145	Nehari, Z.	508
Friedman, B.	22	Bernant, A.	202	Gueffier, S.	573
Kakeya, S.	22	Schiffer, M.	325	*Golusin, G. 573, 574, 575	
Broman, A.	22	Golusin, G.	325	Spencer, D. C.	575
Golusin, G.	22	Biernacki, M.	326	Schaeffer, A. C.	575
Nehari, Z.	145	Atkins, H. P.	326	Spencer, D. C.	575
Biernacki, M.	145	Robinson, R. M.	370	Heins, M.	575

Extremal problems, inequalities. Cf. Inequalities; polynomials (extremal problems).

Fraser, H.	19	Schiffer, M.	325	Lokki, O.	454
Golusin, G. M.	22	Golusin, G.	325	Gabriel, R. M.	461
Pisot, C.	23	Teichmüller, O.	327	Nehari, Z.	508
Selberg, H. L.	23	Robinson, R. M.	370	Schaeffer, A. C.	575
Teichmüller, O.	202	Nehari, Z.	454	Spencer, D. C.	575

Iteration. Cf. Functional equations.

Kreveras, G.	28	Birkhoff, G. D.	201	Myller, A.	517
Massera, J. L.		Jabotinsky, E.	453		
Petracca, A.	28				

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Dufresnoy, J.	25	Montel, P.	507
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Polynomial and other series expansions. Cf. Approximation; polynomials (polynomial approximations).

Augé, J.	20	Murai, M.		Hadwiger, H.	455
Netanyahu, E.	144	Makar, R. H.	323	Călugăreanu, G.	455
Delange, H.	322	*Whittaker, J. M.	454	Ibragimov, I. I.	509
		Pollard, H.	455	Angheluta, T.	573

Complex interpolation and approximation. Cf. Interpolation.

Cinquini, S.	20	Shen, Yu-Cheng.	201	Kober, H.	455
Shen, Yu-Cheng.	20	Belardinelli, G.	322	Shahinian, A. L.	455
Bernstein, S.	20	Ghika, A.	322	Demina, E.	507
Walsh, J. L.	144	Acheyser, N. I.	323	Ibragimov, I. I.	509
Ibragimov, I.	144	Bernstein, S.	323, 373	Salzer, H. E.	535
de Groot, J.	201	Lokki, O.	454	Bernstein, S.	576

Quasi-analytic functions and monogenic functions.

Ghika, A.	25	Bourion, G.	328	Bang, T.	448
Zahorak, Z.	141	Boas, R. P., Jr.	372	Mandelbrojt, S.	448
*Bang, T.	199				

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Bergman, S.	146	Hua, Loo-Keng.	328	Lozinski, S.	510
Fantappiè, L.	158	Min, Sau-hoa.	328	Deny, J.-Lelong, P.	514
Martinelli, E.	203	Martinelli, E.	373	Aravitskaja, E. N.	576
Lelong, P.	271	Comét, S.	456	Fantappiè, L.	589
Giambelli, G.	328	Hua, L. K.	456		

Functions of quaternion variables. Cf. Calculus (contour integrals).

Comét, S.	456	Diaz, J. B.	466	Comét, S.	516
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Morse, M.-Heins, M.	21	Laurentiev, M.	202	Guarnaccia, C.	435
Fedoroff, V. S.	25	Spampinato, N.	250	Resde, M. O.	453
Rios, S.	33	Cimmino, G.	271	Hua, L. K.	456
Kuratowski, C.	50	Hua, Loo-Keng.	328	Diaz, J. B.	466
Chernoff, H.	76	Min, Sau-hoa.	328	Morse, M.-Heins, M.	507
Choquet, G.	93	Humbert, P.	335	Bera, L.-Gelbart, A.	510
Terracini, A.	146	Ridder, J.	373, 374	Terracini, A.	510
Volkof, D.	146				

FUNCTIONS OF REAL VARIABLES AND GENERALIZATIONS. Cf. Calculus; completely monotone functions; convex functions; functional analysis; inequalities; measure and integration; probability (random functions).

One real variable.

Pompeu, D.	15	Korevaar, J.	140	Bradley, F. W.	385
Mostowski, A.	17	Pospisil, B.	140	Herzog, F.	
Sierpiński, W.	17, 18	Faedo, S.	141	Bisinger, B. H.	449
Maximoff, I.	18	Vidal, E.	141	Faedo, S.	449
Kline, S. A.	19	Massera, J. L.	142	Pettineo, B.	449, 450
Walker, A. G.	19	Batty, J. S.		Fáry, I.	450
Alexiewicz, A.		Walker, A. G.	199	Dell'Agnola, C. A.	450
Orlicz, W.	27	Zwirner, G.	257	de Finetti, B.	451
San Juan, R.	27	Birindelli, C.	260	Hruška, V.	451
Ottaviani, G.	35	*Graves, L. M.	319	Kober, H.	455
Cantelli, F. P.	36	Brisac, R.	321	Alexiewicz, A.	506
Seebach, K.	65	Martinelli, E.	321	Szymański, P.	571
Rodov, A.	65	Huzarbasar, V. S.	321		

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Sierpiński, W.	18	Tibaldo, L.	142	Leontief, W.	452
Adelson-Welsky, G. M.-Kronrod, A. S.	142	Blake, A.	245	Guarechi, G.	452
Martinez Salas, J.	142	Ringberg, L. A.	320	Cemari, L.	570
		Fantappiè, L.	321	Tibaldo, L.	571
		de Toledo Piza, A. P.	447		

Differentiation and tangents. Cf. Differential geometry (set-theoretical methods).

Vicente Gonçalves, J.	141	Neumann, B. H.	170	Corominas, E.	451
Zahorak, Z.	141	Choquet, G. Pasc. C.	237	Guarechi, G.	452
Shukla, P. D.	141	Denjoy, A.	260	Kober, H.	455
Martinez Salas, J.	141	Popoff, K.	321	Cioranescu, N.	571
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		Clarkson, J. A.	451	Morse, A. P.	571
		Silivanoff, N. A.	451	de Fossel, R.	572

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Singh, A. N.	19	Raimondi, E.	141	Banerjee, D. P.	451
Kline, S. A.	19	Zahorak, Z.	148	Tams Lyche, R.	571

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Mostowski, A.	17	Monna, A. F.	48	Martin, W. T.	392, 523
Vulikh, B.	30	Brisac, R.	321	Kaplan, I.	434
				Alexiewicz, A.	506

GALOIS THEORY. See: algebra: abstract (Galois theory); algebra: equations (classical Galois theory).

GAMES. Cf. Probability.

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GAMMA FUNCTION. See: special functions (gamma function).

GAS DYNAMICS. See: hydrodynamics (perfect fluids: compressible).

GENETICS. See: biological problems; statistics (biometrics).

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Yudin, M. I.	57	Di Pisa, S.	220	Hubeny, K.	343
Ansermet, A.	57	Glambuso, V.	225	Allard, F.	343
Bachmann, W. K.	57	Boaga, C.	249, 289	Boaga, G.	345

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Hauer, F.	89	Gulotta, B.	90	Volta, L.	289
Hristov, W. K.	90	Boaga, G.	90	Boaga, G.	289
Mineo, C.	90	Morelli, C.	225		

GEOELECTRICITY. See: geophysics (geolectricity).

GEOMAGNETISM. See: geophysics (geolectricity).

GEOMETRICAL OPTICS. See: optics (geometrical).

GEOMETRY. Cf. Algebraic geometry; calculus (applications to geometry); contact transformations; continuous geometry; convex bodies; descriptive geometry; differential geometry; groups (group-theoretical problems of geometry); isoperimetric problems; topology; trigonometry; vector and tensor calculus.

Foundations. Cf. Logic; philosophy.

Haantjes, J.	4	Kabaker, N.	217	Walker, R.	398
Hjelmslev, J.	83	v. Szász, P.	217	Robinson, G. de B.	481
Mayer, O.	84	Lebesgue, H.	218	Busemann, H.	526
Ketonen, O.	125	Prenowitz, W.	249	Hylleraas, E. A.	
Hirsch, G.	166	Tuchman, Z.	336	Romberg, W.	544
Abellanas, P.	167	Cassina, U.	337	Abellanas, P.	596
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Fabricius-Bjerre, F.	83	Saa, E.	218	Hobenberg, F.	399
Tibiletti, C.	85	Kilcer, J.	219	*Ball, W. W. R.	440
Fejes, L.	167	Horninger, H.	336	Fejes, L.	481
Constantinescu, G. G.	167	Tuchman, Z.	336	Richmond, H. W.	596

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Cavallaro, V. G.	84	Hartley, R. W.	336	Thébault, V.	526
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Jensen, H.	83	*Ball, W. W. R.	440	Hadwiger, H.	484
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Ciani, E.	337	Sydler, J.-P.	399	Lauffer, R.	482
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Ghirlocapio, N.	84	Narlikar, V. V.		Facciotti, G.	431
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*Coolidge, J. L.	1	Frisk, O., Jr.	309	Kárteszi, F.	399
Charlier, V. R.	84	Lagrange, R.	336	Sydler, J.-P.	399
Mayer, O.	84	Goormaghtigh, R.	336	Fabricius-Bjerre, F.	399
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Vilks, M.	219	Mandan, R.	338	Bilo, J.	526
Bompiani, E.	219	Naturci, A.	399	Abeliana, P.	596
Scherk, P.	220	Manara, C. F.	399	Walker, A. G.	596
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GREEN'S FUNCTIONS. See: differential equations; harmonic functions (Dirichlet problem); heat conduction.

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Mostowski, A.	3	Markoff, A.	131	Baker, H. F.	400
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Kaloujnine, L.	13	Picard, S.	310	Foulkes, H. O.	500
Dubucque, P.	13	Aitken, A. C.	310	Shafarevitch, I.	560
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Hirsch, K. A.	132	Zappa, G.	252	Dietzmann, A. P.	436
Freudenthal, H.	166	Kurosh, A.	253, 309	Ado, I. D.	437
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Kolchin, E. R.	250	Goldberg, P.	367	Lombardo-Radice, L.	562
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Continuous and topological groups. Cf. Contact transformations; differential equations (infinitesimal transformations); measure and integration (integration in abstract spaces).

Godement, R.	14	Raikov, D. A.	133	Malcev, A.	439
Følner, E.	14	Freudenthal, H.	166	Grayev, M.	500
Gottschalk, W. H.	34	Kurosh, A.	253	Raikov, D.	500
Gottschalk, W. H.		Oxtoby, J. C.	253	Ries, J.	501
Hedlund, G. A.	34	Mackey, G. W.	311	Kawada, Y.	501
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HILBERT SPACES. See: differential geometry (Finsler spaces); functional analysis (Hilbert spaces); measure and integration; topology (topological spaces; applications).

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TORSION. See: elasticity (torsion).

TRANSCENDENCY PROBLEMS. See: Diophantine approximations (transcendancy problems).

TRANSFINITE DIAMETER. See: polynomials (polynomial approximations); potential theory (capacity constants).

TRANSFINITE NUMBERS. See: sets (transfinite numbers).

TRIANGLES. See: geometry (elementary).

TRIGONOMETRIC INTERPOLATION. See: Fourier series (trigonometric interpolation).

TRIGONOMETRIC POLYNOMIALS AND SERIES. See: Fourier series.

TRIGONOMETRY. Cf. Geodesy.

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TURBULENCE. See: hydrodynamics (turbulence); statistical mechanics.

UNIFORMIZATION. See: functions of complex variables (Riemann surfaces).

UNIVALENT FUNCTIONS. See: functions of complex variables.

UNIVERSAL ALGEBRA. See: algebra: abstract (universal algebra).

VALUATIONS. See: algebra: abstract (valuations).

VARIATIONS, CALCULUS OF. See: calculus of variations.

VECTOR AND TENSOR CALCULUS. Cf. Differential geometry; geometry (projective).

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Tensors, spinors and related topics. Cf. Quantum mechanics; relativity.

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VIBRATIONS. See: differential equations; elasticity (wave propagation); electricity; hydrodynamics (wave propagation); mechanics (oscillations); numerical methods (differential equations; practical harmonic analysis).

VISCOUS FLUIDS. See: hydrodynamics (viscous fluids).

WARING PROBLEM. See: number theory (Waring problem).

WAVE MECHANICS. See: quantum mechanics.

WAVES. See: acoustics; differential equations; elasticity (wave propagation); electricity (waves); geophysics; hydrodynamics (wave propagation); numerical methods (differential equations).

WEBS, GEOMETRY OF. See: differential geometry (families of curves).

WHITTAKER FUNCTIONS. See: special functions (Bessel functions).

ZEROS. See: algebra: equations (zeros); functions of complex variables (zeros); numerical methods (equations); polynomials (zeros); special functions.

ZETA FUNCTIONS. See: Dirichlet series (zeta functions); number theory.

TRANSLITERATION OF RUSSIAN

The following system of transliterating Russian has been adopted by Mathematical Reviews for use beginning with volume 7.

а = a	л = l	ц = c
б = b	м = m	ч = č
в = v	н = n	ш = š
г = g	о = o	щ = šč
д = d	п = p	ъ = "
е = e	р = r	ы = y
ж = ž	с = s	ь = ' (soft sign)
з = z	т = t	э = è
и = i	у = u	ю = yu
й = i (hard)	ф = f	я = ya
к = k	х = h	

The system formerly used differed from this as follows: I was j, h was ch or kh, " was ', ' was j, è was e, yu was ju, ya was ja.

Whenever an author's name is transliterated in the journal in which his paper appears, Mathematical Reviews uses that transliteration.

ERRATA

VOLUME 1

- ✓ P. 20: **Kampé de Fériet.**
In the title read 194 instead of 210.
- P. 124: **Buchanan.**
✓ The paper was quoted from a reprint. The correct pagination is 239–248.
- ✓ P. 247: **Potoček.**
The paper was quoted from a reprint. It actually appeared in vol. 40, pp. 123–132.
- P. 306: **Cooke.**
✓ The author's middle initial is G. instead of H. It was misprinted in the original journal.
- P. 366.
✓ The entries under Jaeger should read as follows.
- | | |
|--|-----|
| Jaeger, C. G. | |
| Class of surfaces applicable to the sphere. | 85 |
| Jaeger, J. C. (Cf. Carslaw, H. S.) | |
| Laplace transformation method in circuit theory. | 180 |
| Magnetic screening by hollow circular cylinders. | 223 |

VOLUME 2

- ✓ P. 13: **Amodeo** (second review).
The paper was quoted from a reprint. The correct pagination is 194–221.

VOLUME 3

- ✓ P. 68: **Inaba.**
In the last reference read "L. Rédei and H. Reichardt" instead of "H. Reichardt."

VOLUME 4

- ✓ P. 153: **Moran.**
In lines 7–11 on p. 154, replace the two sentences "Moran states . . . closed" by "Moran proves that the same inequality holds for any measurable set X for which A exists."
G. B. Price (Lawrence, Kan.).
- ✓ P. 282: **Hall.**
The paper was quoted from a reprint. The correct pagination is 219–229.

VOLUME 5

- ✓ P. 66: **Bellman.**
In the title read 49 instead of 42.
- ✓ P. 99: **Mackey.**
For errata to the review, see the review of another paper by the author, these Rev. 8, 519.
- P. 198: **Roure.**
In the title read 333 instead of 353.

VOLUME 6

- ✓ P. 116: **Malcev.**
For errata to the review, see the review of a paper by Levitzki, these Rev. 8, 435.

VOLUME 7

- ✓ P. 513: **Tsuji.**
In the title read 17 instead of 14.

VOLUME 8

- ✓ P. 62: **Krasner.**
In line 9 of the review, read γ instead of x .
- ✓ P. 63: **Kaplansky.**
Delete the last sentence. Cf. the review of a paper by Levitzki, these Rev. 8, 435.
- ✓ P. 73: **Petrov** (first review).
The author's first initial is B., not V. It was misprinted in the original journal.
- ✓ P. 136: **Tricomi; Cherwell.**
The reviews should be interchanged; as printed, the title of Tricomi's paper is followed by the review of Cherwell's paper, and vice versa.
- ✓ P. 139: **Rédei.**
In lines 3 and 9 of the review and in line 4 of the second column, read 8 instead of δ .
- ✓ P. 145: **Biernacki.**
The inequality in line 11 of the review contradicts a result of J. E. Littlewood [Quart. J. Math., Oxford Ser. 9, 14–20 (1938)]. There is an error in Biernacki's proof: on p. 209, line 16, the exponent $-1/n$ should read $-1/(nk)$. This vitiates Biernacki's argument.
W. Seidel (Rochester, N. Y.).

- ✓ P. 148: **Wall** (third review).
Replace the last sentence by the following. For a bounded J -fraction there exists a smallest constant N such that

$$\left| \sum_{p=1}^n b_p u_p v_p - \sum_{p=1}^{n-1} a_p (u_p v_{p+1} + u_{p+1} v_p) \right| \leq N \left\{ \sum_{p=1}^n |u_p|^2 \cdot \sum_{p=1}^n |v_p|^2 \right\}^{1/2}$$

for all $n \geq 1$ and all u_p, v_p ; N is called the norm of the J -fraction and $N \leq M$. In this paper it is shown that there exists a convex set in $|z| \leq N$ such that (1) converges for z outside this set.

W. J. Thron (St. Louis, Mo.).

- ✓ P. 164: **de Mira Fernandes.**
The author's result, in a slightly more special form, was anticipated by Kakutani [Ann. of Math. (2) 43, 739–741 (1942); these Rev. 4, 111].

W. Fenchel (Copenhagen).

- P. 189: **Hofmann** (third review).
In the title read 304 instead of 303.
- ✓ P. 224: **Comessatti.**
The author's name is Comessatti, not Comessati.
- ✓ P. 240: **Signorini** (first review).
In the title read Mat. instead of Math.
- ✓ P. 255: **Walker.**
The reviewer regrets having made an erroneous criticism of the paper. The following changes should be made in the review.
In the first line of the review read "proves" instead of "states." In line 7 read $y_n(x_1) \leq y_n(x_2)$ instead of $y_n(x_1) < y_n(x_2)$. Delete the second paragraph.
E. Hewitt (Chicago, Ill.).

- P. 259: **Youngs.**
Replace the review by the following.
A technique recently used by T. Radó [Trans. Amer. Math. Soc. 58, 420–454 (1945), in particular, pp. 425–427; these Rev. 7, 282] is shown to yield the result that two mappings f_1 and f_2 of Peano spaces into the same

space are Fréchet equivalent if and only if they have monotone light factorizations $f_1 = lm_1, f_2 = lm_2$, with equal middle space, equal light factor l , and Fréchet equivalent monotone factors m_1 and m_2 .

H. Federer (Providence, R. I.).

✓ P. 262: Loo.

The results announced in the paper are proved in a paper reviewed earlier [Trans. Amer. Math. Soc. 56, 508-518 (1944); these Rev. 6, 126].

✓ P. 278: Fichera.

The reviewer regrets having made an erroneous criticism of the papers under review. He stated erroneously that a theorem of Picone on the existence of extrema is false without additional hypotheses. This theorem is basic to the author's results. The next to the last sentence of the review should be deleted.

H. H. Goldstine (Princeton, N. J.).

✓ P. 305: Nallino.

In the fourth line from the end of the review read "Evo" instead of "Ero."

✓ P. 354: Mathematical Tables Project.

In the fifth line of the review, read (0.1) instead of (0.01).

✓ P. 401: Berzolari (second title).

In the title read 401 instead of 402.

✓ P. 448: Obrechhoff (first review).

In the first line, after $x < a$, add: "satisfying

$$\varphi^{(n)}(x) \leq \psi^{(n)}(x)."$$

✓ P. 456: Karamata.

In formula (1) for E_n read e_n instead of s_n .

✓ P. 474: Wishart.

Add the following sentence.

The results for the z -distribution had been obtained previously by Aroian [Ann. Math. Statistics 12, 429-448 (1941); these Rev. 3, 175].

J. W. Tukey (Princeton, N. J.).

✓ P. 493: Hartree.

The word "in" should be inserted after "such as" in line 5 of the second paragraph. The Harvard machine, although it has desirable automatic control features not

possessed by the ENIAC, is much slower; the time required to multiply two ten-digit numbers on the ENIAC is only about three milliseconds as contrasted with about three seconds for the same multiplication on the Harvard machine.

P. W. Ketchum (Urbana, Ill.).

✓ P. 588: Taylor.

In line 9 of the review read P_i instead of P_j .

✓ P. 596: Blumenthal.

Replace the review by the following:

There is assumed a semimetric space of positive finite diameter d for which there is a real decreasing function $\varphi(pq/\rho)$ defined for each distance pq and for a fixed positive parameter ρ ; further, $\varphi(0) = 1$ and $\varphi(d/\rho) = -1$. For points p_1, \dots, p_m the symbol $\Delta_m(p_1, \dots, p_m)$ denotes the determinant $|\varphi(p_i p_j / \rho)|$. A set of $m > 0$ points is defined to be independent if $m = 1$ or if $\Delta_m \neq 0$; otherwise dependent. The following five postulates are imposed. (I) There is a fixed natural number n such that every set of $n+2$ points is dependent. (II) There exists at least one independent set of $n+1$ points. (III) The determinant of each independent set of $m > 1$ points is positive. (Given an independent set p_1, \dots, p_{k+1} of points, the set of all points p such that $\Delta_{k+1}(p_1, \dots, p_{k+1}, p) = 0$ is called a k -dimensional hypersphere.) (IV) If p_i, q_i ($i = 1, \dots, k+1$) are two congruent sets of $k+1$ points (not necessarily distinct) of the k -dimensional hyperspheres S_k, S_k^* , respectively, such that $p_1, \dots, p_{k+1} \approx q_1, \dots, q_{k+1}$, then to each point p of S_k there corresponds at least one point q of S_k^* such that $p_1, \dots, p_{k+1}, p \approx q_1, \dots, q_{k+1}, q$. (V) If p_1, \dots, p_k are k independent points of S_k , then for each point p such that p_1, \dots, p_k, p are independent there exists at least one point q of S_k such that $p_1, \dots, p_k, p \approx p_1, \dots, p_k, q$. Any space in which postulates (I)-(V) is valid is called φ -spherical. After developing the geometry of spaces satisfying merely postulates (I)-(III), those properties of φ -spherical spaces needed to characterize this class among all semimetric spaces are obtained. The concluding section of the paper is devoted to imbedding problems.

J. L. Dorroh (Kingsville, Tex.).

1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 26

